

REAL-TIME ALERT MECHANISM FOR
MONITORING AND CONTROLLING FIELD ASSETS
VIA WIRELESS AND INTERNET TECHNOLOGIES

ABSTRACT OF THE DISCLOSURE

An apparatus and system are disclosed for the real-time monitoring and control of field assets. In particular, a monitoring device is disclosed that may be coupled to a field asset. The monitoring device may be designed as a stand-alone unit or it may be designed to leverage one or more technologies included in the field asset to determine the occurrence of one or more error conditions. The error conditions may be detected either as they occur or by testing the field asset at timed intervals. Upon detection of one or more error conditions, the monitoring device may initiate one or more corrective sequences to resolve the error condition. Alternatively, the monitoring device may notify a network operations center, via a wireless network, of the detected error condition. Users may access the network operations center via the Internet using a Internet-enabled remote device. From the Internet-enabled remote device, the user may view status information concerning one or more field assets. The user may also use the Internet-enabled remote device to instruct the network operations center to issue commands to be executed by the monitoring device coupled to the field asset such that the error conditions on the field asset may be corrected.